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OCT 15 2009

Dean's Office

Application
Instructionally Related Activities Funds Request
2009-2010 Academic Year
DEADLINE: Fall and Academic Year 3/15/09
Spring 10/15/10

Applications must first be sent to the appropriate program chair. Chairs will the recommend and route them to the Dean's Office for review and authorization. The Dean's Office will then forward them to the IRA Committee for consideration.

Activity Title:

Project Sponsor/Staff (Name/Phone): Jorge Garcia, x2769, Cindy Wyels x3260; Ivona Grzegorzczuk x8868; Stephen Clark x3317;

Activity/Event Date(s): **Math/Spanish Exchange with University of Hidalgo Mexico UNIV 392**

Date Funding Needed By: Spring Semester, 2010

**Please Note that for Fall Requests the earliest that you will be notified of funding availability will be early June 2009 and for Spring Requests early January 2010.

Please check if any of the following apply to your IRA:

- Equipment Purchase
- Event
- IT Requirements
- International Travel
- Space/OPC Requirements
- Infrastructure/Remodel
- Other _____
- Field Trip
- Participant data collection for public dissemination, i.e. interviews/surveys that result is a journal/poster session/newsletter
- Risk Management Consultation
- Late Submission (Passed Deadlines: **Fall 3/15, Spring 10/15**)

Previously Funded: YES NO Yes, Request # _____

Does your proposal require IRB (Institutional Review Board) approval: Yes No

Assessment submitted for previously Funded Activity: YES NO

Academic Program or Center Name and Budget Code: **Mathematics 750, Spanish 750**

Date of Submission: **October 15** 2/3 = 11,352

Amount Requested: **\$17,200** (750 = 12,480)

Estimated Number of Students Participating: **15**

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Conditions and Considerations

Equipment Purchase-If requesting large equipment, Project Sponsor must show proof of correspondence with OPC Administration. In addition, all other purchases must follow Procurement Guidelines

Events-Attach copy of Events and Facilities Use Request Form (Public Folders-Events & Facilities folder) Consider time frame for set-up and take down.

Participant Data Collection for Public Dissemination-If Project Sponsor proposes to conduct research with human participants then it may be subject to IRB (Institutional Review Board for the Protection of Human Subjects) review. It is the Project Sponsor's responsibility to inquire with the IRB **prior** to IRA application submission to determine if the project is exempt from IRB review so that funding is not delayed. Please indicate on the cover page if your project is exempt from IRB review.

Field Trip-If approved, Identified Risks of Participation and Release Agreement must be submitted for each student to the Program Office (Public Folders-HR Forms).

IT Requirements-Requires proof of correspondence and approval from IT Administration

International Travel-Requires International Travel application be submitted to Center for International Affairs.

Risk Management Consultation-Requires proof of correspondence with Risk Management.

Space/OPC Requirements, Infrastructure/Remodel-Requires proof of correspondence with OPC Administration .

Late Submission (Deadlines: Fall 3/14, Spring 10/15)-Requires explanation for emergency funding.

Fiscal Management: Project Sponsor's program will be responsible for all costs incurred over and above what is funded through the IRA award and will be responsible for seeing that any revenue that is intended to offset the amount of the IRA award is transferred accordingly.


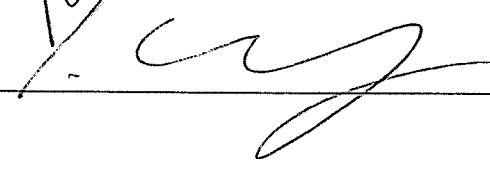
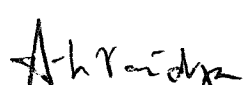
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Requirements and Signatures

Please provide the following in your application:

1. **Brief Activity Description.** Describe the activity and its relationship to the educational objectives of the students' program or major.
2. **Relation to IRA to Course Offerings.** All IRAs must be integrally related to the formal instructional offerings of the University and must be associated with scheduled credit courses. Please list all classes that relate to the program proposed.
3. **Activity Assessment.** Describe the assessment process and measures that the program will use to determine if it has attained its educational goals. **Please note a report will be due at the end of the semester.**
4. **Activity Budget.** Please enclose a complete detailed budget of the entire Activity **bold** specific items of requested IRA funding. (Page 4)
5. **Sources of Activity Support.** Please list the other sources of funding, and additional support for the activity.
7. **Acknowledgment.** Project Sponsor and Program Chair acknowledge that they have reviewed and accepted the Conditions and Considerations detailed on page 2.

Signatures and Dates

Jorge Garcia		Oct 15, 2009
Project Sponsor		Date
Ivona Grzegorzczuk		Oct 15, 2009
Program Chair/Director		Date
		10-21-09
Dean		

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ACTIVITY BUDGET FOR 2009-2010

1. Operating Expense Budget

A. Supplies	_____
B. Vendor Printing	_____
C. In-State Travel	_____
D. Out-of-State Travel	_____
E. Equipment Rental	_____
F. Equipment Purchase	_____
G. Contracts/Independent Contractors	_____
H. Honorarium	_____
I. OPC Chargeback	_____
J. Copier Chargeback	_____
K. Other (Please Specify)	_____
 TOTAL Expenses	_____

2. Revenue

A. Course Fees	_____
B. Ticket Sales	_____
C. Out of Pocket Student Fees (exclusive of course fees)	_____
D. Additional Sources of funding (Please specify And indicate source)	_____
E. Requested Allocation from IRA	_____
 Total Revenue	_____

1. Program and Course Description

We have been successful in establishing contacts with University of Hidalgo. We are planning to have a Joint Meeting between CSUCI and University of Hidalgo (UAEH). According to our last trip to Mexico (March 2008, during Spring Break), the students obtained different kind of experiences, academic, cultural and international. The mathematics program is working towards the student exchange agreement between both institutions, CSUCI and UAEH, and this type of event benefits the students greatly.

This activity will be a continuation of the first activity we did on March 2008 were 10 students (from Mathematics, Psychology, Biology, Spanish and Chicano Studies) traveled to the city of Pachuca in Mexico. Students made presentations as well as field trips, they listened to conferences and establish liaisons with students and faculty at University of Hidalgo, Mexico.

Math Exchange with University of Hidalgo Mexico UNIV 392 will be offered in Summer 2010. This is a unique course designed to enhance the international perspective of students and stimulate interest in mathematics and applications. The class is being proposed with close counsel from the Center for International Affairs (CIA) and colleagues at the Hidalgo University. The bulk of the course will be in Hidalgo during the 2010 spring semester. The city of Pachuca where the university is located, was one of the first settlements in New Spain and lies in a rich mining district in the Sierra Madre Oriental, 7,959 feet above sea level. Typically, there will be morning math seminars given by our students and our host students and by CSUCI and our host faculty, then afternoon and/or evening field trips inside the state. We will be accompanied by our Mexican host students and faculty on the field trips. We will also make a trip to Mexico City to visit the National University of Mexico, where we would also look at the largest mural in the world as well as other murals from Diego Rivera and Siqueiros. As the instructor is a native of Hidalgo with professional mathematical contacts in the area, this trip will give the students a good introduction to the state, both professionally and culturally. There will be a couple of meetings prior to the trip during which we will discuss a) students' presentations, b) Mexican history and culture, and c) necessary details (orientation) for the trip. There will also be one post-trip meeting in which we will discuss the class project that will result from this trip, and a poster session in which our students will present their project.

This class is a rarity in that it is a mathematics class abroad. It thoroughly agrees with the Mission of CSUCI. A tentative syllabus for the class follows as Appendix A.

2. Relation to IRA Program to Course Offerings.

The program is integrally related to the formal instructional offering of several programs in the university, some of them just to mention, Mathematics, Spanish, History, Art

among others. The proposed program establishes immediate links for those students inside the Spanish learning Language as well as those involved in the study of history of Latin-American cultures. For mathematics people, this is a great opportunity to interact and share talks, experiences and culture with Mexican students. For Spanish students, a direct practice with the culture will enhance their knowledge in the Language. Professor Stephen Clark from the Spanish Program will promote and participate in this project, he can certainly advice and prepare many students for the trip. Most important, the proposed program will enhance their international perspectives and will allow them to see themselves globally. The following classes are particularly related to the program

- SPAN 411 Civilizations and Cultures of Latin America (3)
- HIST 420 History of Mexico (3)
- HIST 421 Revolutionary Mexico, 1876-1930 (3)
- SPAN 301 Advanced Spanish: Part One (3) or
- SPAN 302 Advanced Spanish: Part Two (3)
- MATH 140 1 CALCULUS FOR BUSINESS
- MATH 150 1 CALCULUS I
- MATH 240 1 LINEAR ALGEBRA
- MATH 300 1 DISCRETE MATHEMATICS
- MATH 308 1 MODERN MATH FOR ELEM TCHRS
- MATH 330 1 MATHEMATICS AND FINE ARTS
- MATH 352 1 PROBABILITY AND STATISTICS
- MATH 351 1 REAL ANALYSIS
- MATH 393 1 ABSTRACT ALGEBRA
- MATH 350 1 DIFFERENTIAL EQUATIONS 3

3. Activity Assessment

There will be four meetings before the trip to discuss Mexican history, culture, and general orientation for the trip. There will be a basic quiz before the trip as well. The instructor will use these meetings to assess the students before the trip. After the trip, there will be a poster session where each student will be responsible for making a presentation on a topic related to one of the five case studies examined on the trip. This will serve as a post-trip assessment. Students will also be surveyed before and after the trip to determine what aspects of the trip contributed to the learning objectives of the class.

Specifically, these are the learning objectives of the course, as stated in the syllabus:

This course is designed to provide the student with a basic knowledge of the following:

- Modern mathematical issues across the world.
- The scientific methods, approaches to applications and proofs
- History of science and mathematics in Mexico
- Mexican culture and the Mexican perspective

4. Program Budget and Other Funding

The following are approximate costs of the trip per student. Costs are approximated.

Cost of Trip (per student, estimated)

Costs Associated with Fee

Roundtrip Airfare from LAX	\$420	
Accommodations (7 nights)	\$280	
Travel Insurance	\$ 35	- NOT IRA funded
Shuttle to LAX	\$140	
Local Transportation in Mexico	\$100	
Cultural Activities (museums, UNAM)	<u>\$100</u>	
TOTAL:		\$1075

Other Costs

TOTAL per student \$1075 = ~~\$1075~~ \$1040

TOTAL REQUESTED for 15 students \$16,125 = 15,600

Cost of Trip (for one faculty, estimated)

Costs Associated with Fee

Roundtrip Airfare from LAX	\$420	
Accommodations (7 nights)	\$280	
Travel Insurance	\$ 35	- NOT IRA funded
Shuttle to LAX	\$140	
Local Transportation in Mexico	\$100	
Cultural Activities (museums, UNAM)	<u>\$100</u>	
TOTAL:		\$1075

Other Costs

TOTAL for faculty \$1075 - 1040

TOTAL REQUESTED for 15 students and 1 faculty \$17,200 ~~\$17,200~~ ^{11,352 - 2/3}

~~17,200~~ = 12,480

5. Sources of Program Support.

Since this is a fully scientific and educational trip we request full funding for students and one faculty. Additional support will be sought from Hidalgo University, the host of this trip. The Hidalgo University has generously indicated that they will provide cheap accommodations for the students, as well as numerous indirect costs, such as classroom space and cafeteria usage (providing high quality, inexpensive meals). The Hidalgo University will also be a place where CSUCI students will interact with Mexican students, who will also be our hosts on our field trips.

6.- Additional Note

Safety in Mexico

It is true that the violence and drugs war is a reality in Mexico; however, our CSUCI students in this course will be staying at a hotel inside the campus of University of Hidalgo at all times, the hotel belongs to the university. The city of Pachuca, where the students go, is not in the list of dangerous cities in Mexico such as Tijuana, Guadalajara or Cd. Juarez. In addition, the faculty leading the students will take extra precautions to assure the safety of the students. One month before the trip, an evaluation of the trip will be performed to see if the safety becomes an issue to be reconsidered, of course.